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APPLICATION NO.	PPLICATION NO. FILING DATE		FIRST NAMED INVENTOR		ATT	ORNEY DOCKET NO.	CONFIRMATION NO.	
10/730,721	1	2/08/2003		Marc David Levenson		903-021	3958	
24295	03/2//2004					EXAMINER		
Rodney T. Hodgson, Ph.D. 822 Pines Bridge Rd.		* 0 40 8			BOUTSIKARIS, LEONIDAS			
Ossining, N	Y 10562	•				ART UNIT	PAPER NUMBER	
· .			٠.			2872		
. *					DATE	MAILED: 05/27/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)						
Office Action Summary	10/730,721	LEVENSON, MARC DAVID						
Office Action Summary	Examiner	Art Unit						
	Leo Boutsikaris	2872						
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply								
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).								
Status								
1) Responsive to communication(s) filed on <u>08 De</u>	cember 2003	*						
	action is non-final.	,						
		secution as to the ments is						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposition of Claims	*	*.						
4) Claim(s) <u>1-19</u> is/are pending in the application.	***	1						
4a) Of the above claim(s) is/are withdrawn 5) Claim(s) is/are allowed.	n from consideration.	•						
		:						
6)⊠ Claim(s) <u>1-3,10-12 and 19</u> is/are rejected.								
7) Claim(s) 4-9 and 13-18 is/are objected to.								
8) Claim(s) are subject to restriction and/or election requirement.								
Application Papers								
9)☐ The specification is objected to by the Examiner.								
10)⊠ The drawing(s) filed on <u>08 December 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to: See 37 CFR 1.121(d).								
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.								
Priority under 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:								
1. Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No								
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
The second of the continue copies not received.								
Attachment(s)								
1) M Notice of Defenses 201 1 (DDD cost)								
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) ∐ Interview Summary (F Paper No(s)/Mail Date	710-413) D						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) 🔲 Ńotice of Informal Pat							
aper Nu(s)/Wall Date	6)							

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DETAILED ACTION

It is noted that claims 12-20 have been wrongly numbered, and they should have been numbered as 11-19 instead. In the following, the latter enumeration is followed.

Claim Objections

Claims 2-9 are objected to because of the following informalities: all the above claims are apparatus claims and they all depend from claim 1 which is a method claim. It is suggested that the word "apparatus" in said claims is changed to "method". Appropriate correction is required.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 1-3, 10-12, 19 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1 and 15 of U.S. Patent No. 6,661,957.

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Although the conflicting claims are not identical, they are not patentably distinct from each other because claims 1 and 15 of the '957 patent include all the limitations of claims 1-3, 10-12 and 19, respectively, of the present application including the limitation that at least one hole contains a Raman amplifying gas, i.e., an infrared optically active material, that is in the interior of the hole, and thus it is also adsorbed on the interior surface of the hole.

Allowable Subject Matter

Claims 4-9, 14-18 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, and if claims 4-9 overcome the objections set forth supra.

Claims 1-19 are allowable over the prior art of record for at least the reason that even though the prior art discloses the use of holey fibers as evanescent field devices for sensing chemical elements, the prior art fails to teach or reasonably suggest, regarding claims 1-9, a method comprising the steps of introducing an optically active material into at least one hole of the optical fiber, wherein the optically active material is adsorbed on an interior surface of the hole, and detecting the interaction of the laser beam with the material adsorbed on the interior surface of the hole, and regarding claims 10-19, an apparatus comprising an optical fiber having a core region containing a plurality of holes elongated in the direction of the axis, wherein at least one hole contains optically active material adsorbed on the interior surface of the hole, as set forth by the claimed combination.

Monro (CLEO article) and Broderick (US 6,577,801) disclose a use of holey fibers having elongated holes in the cladding as gas sensors, e.g., for sensing methane, by studying the interaction of light with gases and liquids through evanescent field effects.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Leo Boutsikaris whose telephone number is 571-272-2308.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Leo Boutsikaris, Ph.D. Patent Examiner, AU 2872 May 21, 2004